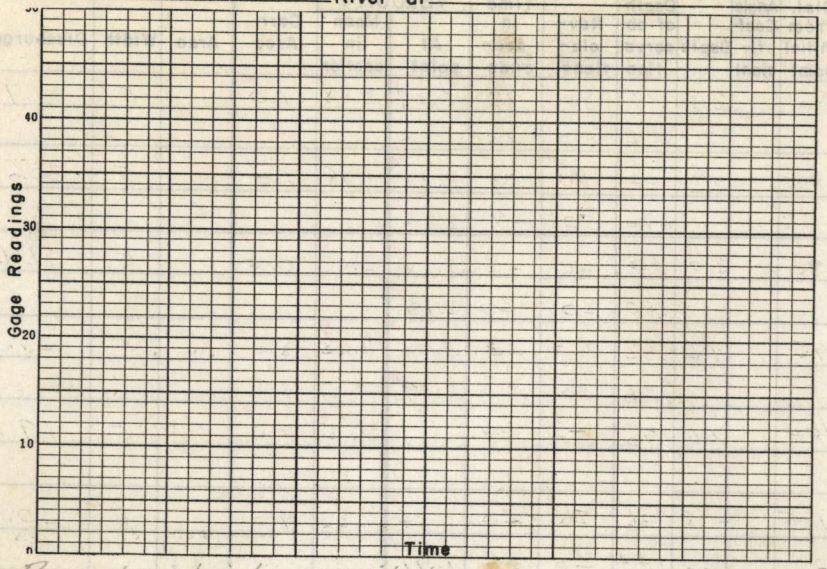

Recorder binding oiled and apparently left ok. Not clock trouble.

July 10	1.82	July 27	1.20
11	1.75	28	0.83
12	1.78	29	0.57
13	1.78	30	0.35
14	1.68	31	0.20
15	1.66	Aug 1	0.09
16	1.68	2	0.46
17	2.37	3	0.95
18	2.75	4	1.00
19	2.25	5	1.00
20	2.00	W-wt. Gage readings.	
21	1.65	7 a.m. ± 10 m. U.S.W.B.	
22	1.84	Copied from observers'	
23	3.60	original record.	
24	4.02		
25	3.18		
26	2.01		

A-34 RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Branch

Water temp. 89
Air temp. 90 °F
Time 11:30 a.m.

Meas. No. 395
Checked by LHG
Date 8-6-52

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond, Tex

Date Aug 5, 1952 Party Gaitz and Goines

Width 130 Area 203 Vel. 2.57 G.H. Disch. 520

Method 2-6-8 No. Secs. 28 G.H. Chng. 0.00 ft. per hr. Time meas. 1.0 hrs.

Meter No. 1950 Date Rated 10/3/44 Susp. Rod Susp. Coef. 1.00

Method Coef. 1.00 Hor. angle Coef. 1.00 Used rating for, rod Rod Susp.

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
9:20			1.00	–	1.02
9:37			1.00	–	–
10:25	Start		(0.99+)		
11:25	Finish		(0.99)		
11:50			0.99		0.99
			USWB	w.wt.	
Weighted MGH			0.99		
GH Corr.					
Correct MGH					

Meter — ft. above bottom of weight

Spin before meas. ok after

Wading, cable, ice, boat, upstr., downstr., side bridge 2 feet, mile, above, below gage, and

Chain, wire, found 58.68 at G-Sta.

Changed to no at

Correct length 58.68

Levels Obtained —

Measurement rated, excellent (2%), good (5%) fair (8%), poor (over 8%) based on following

Cross section fairly uniform

Flow Uniform Weather Hot

Other

Gage Found clock stopped. No record Aug. 2-5 see p. 4 Record removed Yes Intakes flushed Small cone clean

Pencil — Wt. Adj. No Paper —

Record — Chart time — Clock Reg. No

Observer Control - drag line removing sand and gravel from stream bed at low water control (2 mi. downstr.) This may

Control not effect stage-disch. relation as there are several small 'riffles' between gage and 'control.'

Remarks Found and removed drift mark from I.G. at 4.08. Max. stage indicator found at 4.07, left at 1.0 No min. stage indicator

G.H. of zero flow ft.

River at _____

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
REW		10:25 a.m.									
6		0					0	0		2	0
10		1.1	.66	5	40		.29	5.0		4½	1.4
15		1.0	.60	30	60		1.91	5.0		5	5.6
20		.6	.36	30	41		1.67	3.0		5	4.8
25		.9	.54	40	42		2.09	4.5		5	9.4
30		1.1	.66	50	41		2.67	5.5		5	14.7
35		1.2	.72	60	43		3.06	6.0		5	18.4
40		1.3	.78	50	40		2.74	6.5		5	17.8
45		1.2	.72	60	41		3.20	6.0		5	19.2
50		1.0	.60	60	43		3.06	5.0		5	15.3
55		1.5	.90	60	44		2.99	7.5		5	22.4
60		1.9	.38	60	42	3.13	2.50	9.5		5	23.8
			1.52	40	47	1.87					
65		2.5	.50	60	40	3.29	2.69	12.5		5	33.6
			2.00	40	42	2.09					
70		2.5	.50	60	41	3.20	2.94	12.5		5	36.7
			2.00	50	41	2.67					
75		2.4	.48	60	41	3.20	2.76	12.0		5	33.1
			1.92	50	47	2.33					

Page 2 of 4 Comp. by: W.H.G. Checked by: _____

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
80		2.2	.44	80	52	3.37	2.88	11.0		5	31.7
			1.76	50	46	2.38					
85		2.2	.44	80	53	3.31	2.78	11.0		5	30.6
			1.76	50	49	2.24					
90		2.0	.40	60	42	3.13	2.66	10.0		5	26.6
			1.60	40	40	2.19					
95		1.6	.32	60	43	3.06	2.62	8.0		5	21.0
			1.28	40	40	2.19					
100		1.5	.90	50	43		2.55	7.5		5	19.1
105		1.8	.36	50	40	2.74	2.32	9.0		5	20.9
			1.44	40	46	1.91					
110		1.5	.90	50	45		2.44	7.5		5	18.3
115		1.4	.84	60	46		2.86	7.0		5	20.0
120		1.6	.32	60	46	2.86	2.15	8.0		5	17.2
			1.28	30	46	1.44					
125		1.9	.38	60	42	3.13	2.54	9.5		5	24.1
			1.52	40	45	1.95					
130		1.9	.38	60	40	3.29	2.72	9.5		5	25.8
			1.52	40	41	2.14					
135		1.3	.78	40	40		2.19	3.9		3	8.5
136		.6	.36	25	40		1.38	.3		½	.2
LEW		11:25 a.m.									
								202.8		130	~~521.5~~ 520.4

Page 3 of 4 Comp. by: W.H.G. Checked by: _____